Graduate Seminar

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Open Quantum Systems

Abstract:

The temporal evolution of a quantum system is governed by the famous Schroedinger equation. The dynamics of systems which are very large, called open systems, exhibits characteristic effects. For example, information (energy, matter...) can `travel to infinity' and never return, thus causing irreversibility. In this seminar, I will introduce basic mathematical concepts emerging in the description of open quantum systems. I will explain some research results on the dynamics and outline some ideas behind the techniques used in their derivation.